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FIBER ORGANON

Formerly Textile Organon

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MANUFACTURED FIBER, COTTON & WOOL END USE SURVEY

HIGHLIGHTS

- Annual Manufactured Fiber, Cotton and Wool End Use Survey.
- Manufactured Fiber & Semimanufactured Imports 1984 -1988 . . . see page 206.

This month's issue of the ***Fiber Organon*** contains our annual report of U.S. manufactured, cotton and wool fiber consumption by end use. This report is part of a continuing series covering fiber end use for the 40 years 1949-1988.

This survey is to measure the amount of raw manufactured, cotton and wool fiber required to produce the various end use items. Other fibers such as silk, linen, jute and sisal are used in the various products covered by the survey, but no quantity data for these fibers are included in the end uses.

Comparability With Past Data

Every year we report the most up-to-date information on fiber end use, which means previous data must sometimes be revised. Data in a series which has been revised will be denoted by an "r". Changes in definitions or coverage in an end use item are noted in the definitions.

For example, data on glass fiber are no longer available to prevent disclosure of company-level data. These data were last reported in the September 1985 issue. There are new definitions for waste, apparel, home textiles and industrial and other consumer-type items.

The data in this survey may be used in conjunction with earlier issues of the ***Textile Organon*** as follows:

Years	*Textile Organon Issues*
1949-1955	November 1961
1956-1959	January 1966
1960-1963	January 1970
1964-1965	November 1971
1966-1967	November 1973
1968-1969	November 1975
1970	November 1976
1971-1972	November & December 1978
1973	November 1980
1974	November 1981
1975	November 1982
1976	November 1983
1977	September 1984
1978	September 1985
1979	September 1986
1983	September 1987
1984	September 1988

Continued On Page 203

TABLE 1:
U.S. FIBER CONSUMPTION BY END USE [a]

END USE	TOTAL FIBER MILLION POUNDS				TOTAL FIBER % OF TOTAL END USE [b]				MANUFACTURED FIBER MILLION POUNDS				MANUFACTURED FIBER % OF TOTAL END USE [b]			
	1985	1986	1987	1988	1985	1986	1987	1988	1985	1986	1987	1988	1985	1986	1987	1988
APPAREL	4483	5131	5336	5033	*38*	*40*	*39*	*37*	2375	2630	2638	2507	*29*	*30*	*29*	*27*
HOME TEXTILES	1895	2000	2193	2082	*16*	*15*	*16*	*16*	966	900	912	953	*12*	*10*	*10*	*10*
FLOOR COVERINGS	2565	2799	2975	3060	*22*	*22*	*22*	*23*	2538	2767	2934	3023	*31*	*32*	*32*	*33*
INDUSTRIAL & OTHER CONS. - TYPE PROD	2468	2608	2810	2827	*21*	*20*	*20*	*21*	2080	2238	2419	2489	*25*	*25*	*26*	*27*
EXPORTS	329	384	406	456	*3*	*3*	*3*	*3*	210	232	264	313	*3*	*3*	*3*	*3*
TOTAL END USE	**11740**	**12922**	**13720**	**13458**	*100*	*100*	*100*	*100*	**8169**	**8767**	**9167**	**9285**	*100*	*100*	*100*	*100*

All data are drawn from the U.S. End Use Summary table on page 204.

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. Includes domestic shipments, fiber, yarn, fabric imports and waste.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add to 100% vertically.

September 1989

Fiber Organon

A Monthly Review

Formerly ***Textile Organon***

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SURVEY COVERAGE

Table Presentation

End use data are presented by type of fiber, manufactured, cotton and wool; by type of end use product; and by exports of domestic semimanufactured products. All data are in millions of pounds.

Table 1 shows both total and manufactured fiber consumption by end use for the years 1985, 1986, 1987 and 1988. In addition to the pounds of fiber consumed, the percentage of total end use is reported for five categories: apparel, home textiles, floor coverings, industrial and other consumer-type products and exports.

Table 2 presents greater fiber and annual detail than Table 1. Percentage distributions are given for both total end use and for individual end uses.

Tables 7 through 10 give further detail on each of the five end uses reported in Table 2, covering the same five year period 1984-1988. The major change in Tables 7-10 are: Home Textiles Item 51 is now "Curtains & Drapery", and Item 52 is "Upholstery" only (Table 8).

The substantial imports of finished products, such as apparel, blankets, tablecloths and rugs are not included in this survey as they are not manufactured in domestic mills.

Fibers Covered

The manufactured fiber data are presented in two general categories. Artificial (Cellulosic), which includes rayon and acetate, and Synthetic (Noncellulosic), which includes nylon, polyester, acrylic and olefin. Glass fiber is no longer included. See footnote (b) under General Notes on page 214 for additional descriptions. The cotton end use data cover raw cotton. Cotton waste and cotton linters quantities are excluded, except when pertaining to waste. See the section describing waste fiber coverage for further explanation. Wool data cover both virgin and reprocessed and reused wool.

SURVEY WASTE FIBER COVERAGE

In the survey, textile fiber waste is handled in three different ways: First, end uses which employ waste fiber, either wholly or in part without preliminary processing are not included (e.g., furniture stuffing, mattress felts, punched or needled felts for carpet & rug underlays, pressed wool felts and some nonwoven fabrics).

Second, for certain end uses which utilize both new fiber and the fiber derived from processed waste, the quantities shown have been calculated so as to exclude the waste component inasmuch as possible.

And third, waste which has been processed into usable spinnable fiber is included in the quantities shown for Blankets (Item 46), Carpets & Rugs (Item 50) and a number of other applications. It is important to note that in products such as these, fiber derived from waste by preliminary processing, especially for the manufactured fiber quantities, is a significant and measured part of the total end use.

METHODOLOGY

COTTON: The cotton series presented in earlier issues were mainly those of the National Cotton Council as published in its annual survey ***"Cotton Counts Its Customers"*** (1988 and earlier editions).

With this issue we are changing the methodology in using the bale opening figure from the Bureau of the Census Report M22P plus imports. ***Cotton Counts Its Customers*** is used as an indicator for the end use distribution.

WOOL: The Wool Bureau and government data are employed.

Blends of wool with other fibers are common in many end uses, but little information is available on the fiber composition of these blends. Thus, relatively reliable measures are available mainly on the wool quantities used in Home Textiles (blankets and carpets) and such Apparel items as Craft Yarns.

These quantities were deducted from the Available Supply in Table 3, page 205, and residual quantities were then attributed to Apparel Usage in individual apparel items from the years 1984 - 1988. This was calculated by correlating the data of Census reports MA-23A and MQ-22T on Apparel and Broad Woven Goods, respectively.

MANUFACTURED FIBERS: The manufactured fiber data are based on producers' domestic shipments plus imports of fiber, yarn and semimanufactured products.

Continued on Page 206

TABLE 2:
U.S. END USE SUMMARY EXCLUDING GLASS FIBER
MILLION POUNDS & *PERCENT*

END USE & YEAR	GRAND TOTAL			COTTON			WOOL			MANUFACTURED FIBERS			MANUFACTURED FIBER DETAIL								
													ARTIFICIAL (CELL.)					SYNTHETIC (NONCELL.)			
													TOTAL			YARN	STAPLE	TOTAL			YARN	STAPLE
	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	LBS	LBS	%[a]	%[b]	LBS	LBS
APPAREL																						
1984	4390	100	38.8	1719	39.2	56.2	171	3.9	74.0	2500	56.9	31.2	239	5.4	41.6	153	86	2261	51.5	30.4	1117	1144
1985	4483	100	38.2	1966	43.8	58.3	142	3.2	72.4	2375	53.0	29.1	208	4.6	38.3	141	67	2167	48.3	28.4	1086	1081
1986	5131	100	39.7	2343	45.7	59.5	158	3.0	73.5	2630	51.3	30.0	250	4.9	41.3	151	99	2380	46.4	29.2	1004	1376
1987	5336	100	38.9	2541	47.7	58.7	157	2.9	69.5	2638	49.4	28.8	236	4.4	40.2	123	113	2402	45.0	28.0	979	1423
1988	5033	100	37.4	2384	47.4	60.2	142	2.8	67.3	2507	49.8	27.0	276	5.5	45.0	143	133	2231	44.3	25.7	874	1357
HOME TEXTILES																						
1984	1849	100	16.3	863	46.7	28.2	21	1.1	9.1	965	52.2	12.0	132	7.1	23.0	26	106	833	45.1	11.2	259	574
1985	1895	100	16.1	911	48.1	27.0	18	0.9	9.2	966	51.0	11.8	126	6.6	23.2	19	107	840	44.4	11.0	293	547
1986	2000	100	15.5	1082	54.1	27.5	18	0.9	8.4	900	45.0	10.3	131	6.5	21.6	17	114	769	38.5	9.4	245	524
1987	2193	100	16.0	1263	57.6	29.2	18	0.8	8.0	912	41.6	9.9	139	6.3	23.7	22	117	773	35.3	9.0	249	524
1988	2082	100	15.5	1113	53.4	28.1	16	0.8	7.6	953	45.8	10.3	130	6.2	21.2	21	109	823	39.6	9.5	270	553
FLOOR COVERINGS																						
1984	2287	100	20.2	14	0.6	0.5	14	0.6	6.1	2259	98.8	28.2	1	0	0.2	0	1	2258	98.8	30.3	1162	1096
1985	2565	100	21.8	15	0.6	0.4	12	0.5	6.1	2538	98.9	31.1	1	0	0.2	0	1	2537	98.9	33.3	1399	1138
1986	2799	100	21.7	15	0.5	0.4	17	0.6	7.9	2767	98.9	31.6	2	0.1	0.3	0	2	2765	98.8	33.9	1535	1230
1987	2975	100	21.7	18	0.6	0.4	23	0.8	10.2	2934	98.6	32.0	1	0	0.2	0	1	2933	98.6	34.2	1614	1319
1988	3060	100	22.7	15	0.5	0.4	22	0.7	10.4	3023	98.8	32.6	1	0	0.2	0	1	3022	98.8	34.8	1653	1369
INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS																						
1984	2505	100	22.1	376	15.0	12.3	21	0.8	9.1	2108	84.2	26.3	187	7.5	32.6	28	159	1921	76.7	25.8	998	923
1985	2468	100	21.0	375	15.2	11.1	13	0.5	6.6	2080	84.3	25.5	192	7.8	35.4	30	162	1888	76.5	24.8	969	919
1986	2608	100	20.2	357	13.7	9.1	13	0.5	6.0	2238	85.8	25.5	204	7.8	33.7	28	176	2034	78.0	24.9	1107	927
1987	2810	100	20.5	378	13.5	8.7	13	0.5	5.8	2419	86.0	26.4	189	6.6	32.2	22	167	2230	79.4	26.0	1185	1045
1988	2827	100	21.0	326	11.6	8.2	12	0.4	5.7	2489	88.0	26.8	181	6.4	29.5	21	160	2308	81.6	26.6	1238	1070
EXPORTS OF DOMESTIC PRODUCTS																						
1984	279	100	2.6	85	30.5	2.8	4	1.4	1.7	190	68.1	2.3	15	5.4	2.6	9	6	175	62.7	2.3	73	102
1985	329	100	2.8	108	32.8	3.2	11	3.3	5.7	210	63.9	2.5	16	4.9	2.9	9	7	194	59.0	2.5	76	118
1986	384	100	3.0	143	37.3	3.5	9	2.3	4.2	232	60.4	2.6	19	4.9	3.1	11	8	213	55.5	2.6	88	125
1987	406	100	2.8	127	31.3	3.0	15	3.7	6.5	264	65.0	2.9	22	5.4	3.7	13	9	242	59.6	2.8	100	142
1988	456	100	3.2	124	27.2	3.1	19	4.2	9.0	313	68.6	3.2	25	5.5	4.1	15	10	288	63.1	3.3	119	169
TOTAL END USE CONSUMPTION																						
1984	11310	100	100	3057	27.0	100	231	2.0	100	8022	71.0	100	574	5.1	100	216	358	7448	65.9	100	3609	3839
1985	11740	100	100	3375	28.7	100	196	1.7	100	8169	69.6	100	543	4.6	100	199	344	7626	65.0	100	3823	3803
1986	12922	100	100	3940	30.5	100	215	1.7	100	8767	67.8	100	606	4.7	100	207	399	8161	63.2	100	3979	4182
1987	13720	100	100	4327	31.5	100	226	1.6	100	9167	66.7	100	587	4.2	100	180	407	8580	62.5	100	4127	4453
1988	13458	100	100	3962	29.4	100	211	1.6	100	9285	69.0	100	613	4.6	100	200	413	8672	64.4	100	4154	4518

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand Total columns.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add vertically to the 100% shown under Total End Use Consumption.

TABLE 3:
END USE CONSUMPTION INCLUDING SEMIMANUFACTURED IMPORTS[e]
MILLION POUNDS

	MANUFACTURED FIBERS								COTTON			WOOL					
	MILL CONSUMPTION																
	ARTIFICAL (CELLULOSIC)			SYNTHETIC (NONCELLULOSIC)													
YEAR	YARN	STAPLE [b]	TOTAL	YARN	STAPLE [b]	TOTAL	IMPORTS [c]	TOTAL	MILL CONS. [a]	IMPORTS [c]	TOTAL	MILL CONS. [a]	REPRO-CESSED & REUSED [d]	COTTON SYSTEM [d]	IMPORTS [c]	TOTAL	AVAIL-ABLE SUPPLY
1984	228.3	359.6	587.9	3398.6	3803.0	7201.6	241.4	8030.9	2668.2	505.4	3173.6	163.2	7.6	5.5	55.3	231.6	11436.1
1985	201.0	344.6	545.6	3663.8	3826.1	7489.9	203.8	8239.3	2796.0	477.5	3273.5	134.7	5.3	4.2	50.5	194.7	11707.5
1986	209.1	399.2	608.3	3747.3	4098.3	7845.6	341.3	8795.2	3301.7	638.8	3940.5	164.5	9.5	8.5	39.6	222.1	12957.8
1987	179.6	406.0	585.6	3927.1	4349.0	8276.1	303.6	9165.3	3736.5	784.4	4527.3	167.6	7.9	6.9	44.1	226.5	13919.1
1988	200.2	412.7	612.9	4030.2	4368.4	8398.6	273.3	9284.8	3401.0	561.9	3962.9	156.1	3.9	6.8	43.0	209.8	13457.5

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. Mill Consumption is taken from page 71 of the April 1989 ***Fiber Organon***, plus subsequent revisions.

b. Manufactured staple includes waste.

c. Imports are taken from page 54 of the March 1989 ***Textile Organon***.

d. These volumes of reprocessed and reused wool, as well as wool used on the cotton spinning system, are not included in the mill consumption series for wool.

e. Semimanufactured imports are taken from page 206 of this issue.

TABLE 4:
COTTON LINTER PRODUCTION [a]
FOR THE SEASONS BEGINNING AUGUST 1ST
MILLION POUNDS

	1983	1984	1985	1986	1987	1988
FELTING -	139.7	102.3	138.7	131.7	106.5	137.2
OF WHICH:						
BEDDING, MATTRESSES & BOX SPRING FELTS	76.1	55.6	75.6	71.8	58.0	74.8
UPHOLSTERED FURNITURE PRIMARILY SOFAS & CHAIRS	52.0	38.1	51.6	49.0	39.6	51.0
AUTOMOTIVE, PRIMARILY PASSENGER CARS & TRUCKS	11.6	8.6	11.5	10.9	8.9	11.4
OTHER, INCLUDING PAPER, ABSORBENT COTTON, ECT.	25.3	18.5	25.1	23.8	19.2	24.8
TOTAL LINTERS	165.0	120.8	163.8	155.5	125.7	162.0

Source: Department of Commerce, Bureau of the Census, Report M20J.

a. 1st cut.

TABLE 5:
MANUFACTURED FIBER & SEMIMANUFACTURED IMPORTS
MILLION POUNDS

	1984	1985	1986	1987	1988
ARTIFICIAL (CELLULOSIC) FIBERS					
YARN	10.0	13.9	17.0	12.8	17.6
STAPLE	17.0	12.3	17.4	13.8	20.4
WASTE	0.5	0.5	0.1	0.1	+
SUBTOTAL ABOVE	27.5	26.7	34.5	26.7	38.0
SYNTHETIC (NONCELLULOSIC) FIBERS					
YARN - SINGLES					
NYLON - TEXTURED	18.0	32.4	36.7	28.8	20.4
- OTHER	30.2	18.4	22.5	22.8	17.8
POLYESTER - TEXTURED	10.8	16.6	14.6	15.6	15.1
- OTHER	15.7	16.7	22.5	19.4	21.6
OTHER - TEXTURED	8.9	14.7	20.5	24.1	25.2
- OTHER	2.5	2.5	5.1	6.8	8.2
MONOFILAMENTS	2.9	2.1	2.7	3.8	4.8
STRIPS, OVER $1/LB	1.0	1.2	1.5	2.6	3.2
SUBTOTAL ABOVE	90.0	104.6	126.1	123.9	116.3
STAPLE [a] NYLON	61.4	68.1	90.5	71.2	62.2
- POLYESTER	30.0	31.8	43.1	73.9	77.6
- ACRYLIC	20.4	25.1	30.5	28.7	34.8
- OLEFIN	2.2	5.7	1.9	0.5	2.1
- OTHER	17.1	28.7	16.8	14.7	19.5
SUBTOTAL ABOVE	131.1	159.4	182.8	189.0	196.2
WASTE, NOT ADVANCED - NYLON	31.2	27.2	22.4	26.9	22.5
- POLYESTER	8.0	7.1	6.3	9.2	10.1
- ACRYLIC	0.3	0.3	0.3	0.3	0.2
- OTHER	4.0	2.1	8.4	4.7	2.6
NOILS & GARNETTED FIBERS	0.4	0.2	0.2	0.2	0.1
OTHER WASTE, ADVANCED	6.7	3.8	2.7	5.7	5.0
SUBTOTAL ABOVE	50.6	40.7	40.3	47.0	40.5
TOTAL FIBER ABOVE [b]	299.2	331.4	383.7	386.6	391.0
SEMIMANUFACTURES					
SLIVER, TOPS & ROVING	4.7	2.1	3.4	5.8	4.1
YARNS, THROWN OR PLIED	15.4	23.7	23.6	13.7	12.3
SPUN YARNS	46.3	45.5	64.5	63.5	43.4
SEWING THREAD & HANDWORK YARN	5.7	9.7	4.7	8.9	7.8
WOVEN FABRICS	154.9	186.2	207.2	182.5	179.2
NARROW FABRICS	12.4	18.4	25.3	14.6	14.9
KNIT FABRIC	3.0	9.7	12.5	14.6	11.5
SUBTOTAL ABOVE	242.4	295.3	341.2	303.6	273.2
GLASS FIBER	23.1	34.7	23.7	29.4	26.2
TOTAL SEMIMANUFACTURES ABOVE [c]	265.5	330.0	364.9	333.0	299.4
GRAND TOTAL ABOVE	564.7	661.4	748.6	719.6	690.4

a. Includes grouped filaments.
b. **SOURCE:** U.S. Bureau of the Census.
c. **SOURCE:** U.S. Department of Agriculture, ***Cotton and Wool Outlook Situation.***

For imports of fiber, the data are taken from the monthly summaries in each ***Fiber Organon.*** A listing of the commodity numbers used may be found on page 27 of the February 1989 issue under the import table.

Continued From Page 203

UNIT PRODUCTION VERSUS FIBER CONSUMED

This survey shows the quantity of raw fiber which had to be put into process in order to manufacture end products. No direct comparison can be, or should be, made between the quantities of the fibers consumed, as recorded in the survey, and the finished or "shelf" weight of those end products by fiber. Comparison should be avoided because:

1. The variation in the weight per square yard of fabric made of the different fibers for the same end use. According to recent data collected by the U.S. Census Bureau, cotton fabrics averaged 7.0 square yards per pound and wool 0.6 square yards per pound. But for manufactured fiber, 100% filament yarn fabrics averaged 4.4 square yards per pound and spun yarn fabrics averaged 3.3 square yards per pound.

2. From these data, it is apparent that the "covering power" of fabrics made from the various fibers varies a great deal. Hence, a simple comparison of quantities of fibers consumed would be misleading both because of the differences in fibers concerning covering power and the difference in typical fabric weights of products made of the various fibers, as described.

Continued On Page 210

TABLE 6:
EXPORTS OF SEMIMANUFACTURED PRODUCTS [a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
TOTAL EXPORTS OF SEMIMANUFACTURED PRODUCTS								
1984	r279.5	190.9	9.4	6.1	73.0	102.4	r84.5	r4.1
1985	r328.6	209.7	9.6	6.6	75.8	117.7	r108.0	r10.9
1986	383.7	232.1	11.0	7.6	88.0	125.5	143.0	8.6
1987	r405.6	263.8	12.5	8.6	100.3	142.4	126.9	r14.9
1988	455.0	312.6	14.7	10.3	118.8	168.8	123.8	18.6
80 YARN, THREAD, ETC [c]								
1984	r61.4	38.5	e	2.6	e	35.7	r20.0	r2.7
1985	r86.0	50.9	e	2.7	e	48.4	25.8	r9.3
1986	70.8	47.9	e	2.5	e	45.4	16.6	6.3
1987	86.2	53.9	e	2.8	e	51.1	19.6	12.7
1988	110.2	66.5	e	3.5	e	63.0	27.2	16.5
81 WOVEN & KNIT FABRIC [c]								
1984	r218.5	152.6	9.4	3.5	73.0	66.7	r64.5	r1.4
1985	r242.4	158.6	9.6	3.9	75.8	69.3	r82.2	1.6
1986	312.9	184.2	11.0	5.1	88.0	80.1	126.4	2.3
1987	r319.4	209.9	12.5	5.8	100.3	91.3	107.3	r2.2
1988	344.8	246.1	14.7	6.8	118.8	105.8	96.6	2.1

SOURCE: U.S. Department of Agriculture, ***Cotton & Wool Outlook Situation.***

This is a non-add section since the volumes are included in Tables 2 and 7 through 10.

For all lettered and general footnotes to this table, see page 214.

NOTES FOR EXPORT ITEMS ABOVE

For all lettered and general footnotes to this table, see page 214.

These exports do not duplicate the end use quantities that are reported in Items 1 through 79. Apparel items are not tabulated here because they already have been counted as the fabric was cut, i.e., they are counted only once regardless of the subsequent place of sale or consumer use.

Similarly, fabrics for blankets, sheets, upholstery & draperies, carpets, etc., are excluded since they are measured at the mill level as an end use.

The exports of manufactured fiber filament yarn+monofilaments, staple, tow, etc., are not tabulated in this section because these products are not a factor in U.S. mill consumption.

On the other hand, the two export items are recorded because, while they were processed or fabricated in U.S. mills, they were exported before reaching the point at which end use is measured.

80. YARN, THREAD, ETC:
Consists of sliver, tops & roving; plied and spun yarn; sewing thread and handwork yarns; cotton twine and cordage; and advanced wool.

81. WOVEN & KNIT FABRIC:
Consists of broad & narrow woven fabrics and knit cloth, except that cotton also includes table damask and tire cord & fabric.

TABLE 7:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
TOTAL APPAREL								
1984	4389.2	2499.9	153.5	86.1	1116.6	1143.7	1718.6	170.7
1985	r4482.8	2374.7	140.7	66.9	1086.5	1080.6	r1966.4	141.7
1986	r5131.1	r2629.8	150.8	98.9	r1003.7	r1376.4	r2342.7	158.6
1987	r5335.5	r2637.5	r123.4	112.8	r978.8	r1422.5	r2541.3	156.7
1988	5033.2	2507.3	143.5	133.0	873.5	1357.3	2384.1	141.8
40 SHEER HOSIERY (W)*								
1984	86.0	82.6	--	--	82.6	--	3.4	--
1985	86.4	83.0	--	--	83.0	--	3.4	--
1986	r91.0	87.2	--	--	87.2	--	r3.8	--
1987	r95.5	91.3	--	--	91.3	--	r4.2	--
1988	98.1	93.8	--	--	93.8	--	4.3	--
19,41 ANKLETS & SOCKS (MW)*								
1984	190.5	131.5	--	0.5	59.5	71.5	55.6	3.4
1985	189.3	122.7	--	0.4	56.9	65.4	63.9	2.7
1986	r210.8	127.7	c	0.4	57.3	70.0	r79.3	3.8
1987	r210.1	112.8	c	0.4	59.0	53.4	r93.5	3.8
1988	203.1	106.0	0.1	0.3	58.6	47.0	93.7	3.4
8,29 SWEATERS & RELATED ACCESSORIES								
1984	167.4	113.7	--	1.2	0.5	112.0	33.7	20.0
1985	186.9	110.3	--	1.2	0.6	108.5	59.8	16.8
1986	r274.9	r164.0	--	1.5	0.4	r162.1	r91.9	19.0
1987	r259.4	r155.6	--	0.3	0.3	r155.0	r84.5	19.3
1988	223.8	140.9	0.1	0.1	0.4	140.3	65.5	17.4
57 CRAFT & HANDWORK YARNS*								
1984	90.9	82.1	--	0.8	--	81.3	3.5	5.3
1985	92.1	85.1	--	0.1	0.3	84.7	2.7	4.3
1986	r91.2	82.4	1.2	0.2	c	81.0	r4.8	4.0
1987	r80.9	72.0	0.9	0.2	c	70.9	r4.9	4.0
1988	75.6	67.6	1.1	0.2	--	66.3	4.3	3.7
15-18 UNDERWEAR & NIGHTWEAR (M)*								
1984	268.9	90.5	--	--	9.9	80.6	177.4	1.0
1985	264.0	83.6	--	--	8.0	75.6	179.6	0.8
1986	r320.8	108.8	--	--	12.5	96.3	r211.8	0.2
1987	r343.3	100.0	--	--	10.5	89.5	r243.1	0.2
1988	312.4	84.8	--	--	8.7	76.1	227.4	0.2
35-39 UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS (W)*								
1984	178.0	130.7	8.6	--	99.9	22.2	46.3	1.0
1985	189.9	136.7	6.8	--	105.2	24.7	52.4	0.8
1986	r194.0	128.9	8.0	--	94.8	26.1	r64.9	0.2
1987	r203.5	123.7	1.9	--	92.0	29.8	r79.6	0.2
1988	195.2	125.2	2.9	--	88.3	34.0	69.8	0.2
10,31 ROBES & LOUNGEWEAR (MW)*								
1984	99.6	79.6	41.5	--	23.7	14.4	17.1	2.9
1985	84.9	70.6	37.2	--	20.3	13.1	12.0	2.3
1986	r93.1	73.8	31.2	--	23.5	19.1	r17.0	2.3
1987	r83.6	61.7	19.7	--	22.9	19.1	r19.6	2.3
1988	82.8	63.9	19.3	--	27.9	16.7	16.6	2.3

TABLE 7:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a] (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
54a HIGH PILE FABRICS								
1984	61.4	61.4	--	0.3	9.7	51.4	--	--
1985	57.1	57.1	--	--	6.4	50.7	--	--
1986	59.0	59.0	--	--	10.6	48.4	--	--
1987	67.9	67.9	--	2.0	15.4	50.5	--	--
1988	55.2	55.2	--	--	8.3	46.9	--	--
*54b FABRICS FOR LINING**								
1984	153.7	109.6	79.8	1.9	21.7	6.2	40.9	3.2
1985	146.2	103.5	74.2	1.5	17.6	10.2	40.0	2.7
1986	r179.3	133.9	98.3	3.6	18.5	13.5	r42.6	2.8
1987	r180.9	136.1	90.4	5.8	23.6	16.3	r41.9	2.9
1988	175.5	139.1	104.1	6.5	18.3	10.2	33.7	2.7
*43 APPAREL LACE (W)**								
1984	5.5	4.0	--	--	4.0	--	1.5	--
1985	6.1	4.6	--	--	4.6	--	1.5	--
1986	4.3	2.8	--	--	2.8	--	1.5	--
1987	r3.9	r2.4	r0.3	--	r2.1	--	1.5	--
1988	4.6	3.1	--	--	3.1	--	1.5	--
*56a NARROW FABRICS**								
1984	47.9	21.8	0.7	--	19.0	2.1	26.1	--
1985	46.9	23.3	1.5	--	20.1	1.7	23.6	--
1986	59.9	35.1	2.1	--	30.1	2.9	24.8	--
1987	77.7	51.6	2.2	--	46.4	3.0	26.1	--
1988	78.5	51.7	2.6	--	46.4	2.7	26.8	--
*TOPWEIGHT FABRICS**								
1984	1032.5	547.6	18.4	45.7	178.0	305.5	479.7	5.2
1985	r1040.4	496.2	16.5	35.7	173.0	271.0	r540.1	4.1
1986	r1206.1	r576.2	7.5	52.1	r148.2	r368.4	r626.3	3.6
1987	r1397.1	r718.7	5.6	49.3	r127.5	r536.3	r674.7	3.7
1988	1455.8	727.5	5.8	58.9	130.1	532.7	724.9	3.4
*BOTTOMWEIGHT FABRICS**								
1984	1959.3	1037.8	4.5	35.7	605.1	392.5	792.8	128.7
1985	r2046.8	990.8	4.5	27.8	587.5	371.0	r948.8	107.2
1986	r2290.9	r1041.4	2.5	40.6	r514.4	r483.9	r1126.8	122.7
1987	r2272.0	r934.9	2.4	53.3	r484.5	r394.7	r1216.8	120.3
1988	2006.8	830.3	2.5	63.5	386.0	378.3	1068.0	108.5
*OTHER APPAREL & ACCESSORIES (MW)**								
1984	47.6	7.0	--	--	3.0	4.0	40.6	c
1985	45.8	7.2	--	0.2	3.0	4.0	38.6	c
1986	r55.8	8.6	--	0.5	3.4	4.7	r47.2	c
1987	r59.7	8.8	--	1.5	3.3	4.0	r50.9	c
1988	65.8	18.2	5.0	3.5	3.6	6.1	47.6	c

Most of the above data are taken from the Fiber Economics Bureau's publication ***Manufactured Fiber Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Home Textiles, Floor Covering and Industrial & Other Consumer-Type Products tables, please see page 214.

TABLE 8:
FIBER CONSUMED IN U.S. HOME TEXTILES PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS [a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
TOTAL HOME TEXTILES								
1984	1849.7	965.4	26.5	106.1	258.6	574.2	863.0	21.3
1985	1895.4	966.4	18.5	107.1	293.4	547.4	911.3	17.7
1986	r1999.7	900.0	16.8	113.9	244.9	524.4	r1082.1	17.6
1987	r2193.1	r912.3	21.8	117.2	r248.8	r524.5	r1262.8	18.0
1988	2082.5	952.8	20.8	108.8	270.6	552.6	1113.4	16.3
*45 BEDSREADS & QUILTS**								
1984	134.1	81.2	4.0	6.0	15.2	56.0	52.9	--
1985	134.8	77.2	c	6.0	17.2	54.0	57.6	--
1986	r146.6	80.0	0.2	6.3	19.1	54.6	r66.6	--
1987	r177.1	93.8	--	3.3	20.5	70.0	r83.3	--
1988	188.4	109.7	0.2	--	29.0	80.7	78.7	--
*46 BLANKETS & BLANKETING**								
1984	66.8	50.9	--	0.2	1.0	49.7	10.9	5.0
1985	74.8	54.6	--	0.2	--	54.4	16.1	4.1
1986	r77.0	51.1	--	0.2	--	50.9	r21.6	4.3
1987	r81.3	51.8	--	0.2	--	51.6	r25.4	4.1
1988	72.3	42.5	--	0.2	--	42.3	26.1	3.7
*47 SHEETS & OTHER BEDDING**								
1984	516.3	300.0	0.5	15.0	75.7	208.8	216.3	-
1985	493.4	269.3	1.5	12.5	77.7	177.6	224.1	--
1986	r520.3	254.8	1.9	12.7	70.1	170.1	r265.5	--
1987	r528.3	235.2	1.5	7.2	59.7	166.8	r293.1	--
1988	506.5	239.0	0.4	6.2	60.8	172.0	267.5	--
*48 TOWELS & TOWELING**								
1984	405.9	30.3	--	0.7	0.6	29.0	375.6	--
1985	414.5	22.3	--	0.9	0.2	21.2	392.2	--
1986	r500.6	31.9	--	0.5	0.2	31.2	r468.7	--
1987	r571.1	34.2	--	0.1	0.5	33.6	r536.9	--
1988	467.4	36.7	--	0.2	0.5	36.0	430.7	--
*56b NARROW FABRICS**								
1984	4.3	0.5	--	--	c	0.5	3.8	--
1985	4.8	1.2	--	--	1.2	c	3.6	--
1986	4.1	0.3	--	--	0.2	0.1	3.8	--
1987	6.2	2.2	--	--	1.7	0.5	4.0	--
1988	6.0	2.0	--	--	1.8	0.2	4.0	--

Continued From Page 206

LIMITATIONS OF THE SURVEY RESULTS

The statistical results of this end use survey should be considered as approximations. These data are best used as a means of comparison to measure the long-term trends among the fibers.

Please note that the data are given in millions of pounds and include one decimal place to show hundred thousand pounds. This device is employed not to show great accuracy, but rather to take into account some small quantities of fibers in such end uses as Apparel Lace and still allow the compilation to add arithmetically.

TABLE 8:
FIBER CONSUMED IN U.S. HOME TEXTILES PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS [a] (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
51 CURTAINS & DRAPERY *								
1984	247.4	179.7	13.4	44.3	47.1	74.9	67.7	--
1985	242.4	172.5	14.4	44.4	43.7	70.0	69.9	--
1986	r277.8	190.2	14.3	48.9	45.2	81.8	r87.6	--
1987	r277.0	163.1	19.7	52.2	42.5	48.7	r113.9	--
1988	264.7	161.9	19.9	49.9	50.4	61.6	102.8	--
*52 UPHOLSTERY**								
1984	374.3	248.3	5.9	38.9	83.3	120.2	109.7	16.3
1985	400.8	261.3	0.8	36.7	104.6	119.6	125.9	13.6
1986	r390.6	229.3	0.8	44.3	92.0	92.6	r148.0	13.3
1987	r469.8	r269.2	0.1	53.2	r93.0	122.9	r186.7	13.9
1988	458.3	259.8	--	48.7	86.3	124.8	185.9	12.6
*OTHER HOME TEXTILES**								
1984	100.6	74.5	2.7	1.0	35.7	35.1	26.1	--
1985	129.9	108.0	2.2	6.4	48.8	50.6	21.9	--
1986	r82.5	62.2	--	1.0	18.1	43.1	r20.3	--
1987	r82.3	r62.8	0.5	1.0	r30.9	r30.4	r19.5	--
1988	98.1	80.4	0.3	3.6	41.8	35.0	17.7	--

TABLE 9:
FIBER CONSUMED IN U.S. FLOOR COVERINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
*50 TOTAL CARPETS & RUGS**								
1984	2287.1	2258.4	--	0.7	1162.1	1095.6	14.3	14.4
1985	2564.7	2538.0	--	1.3	1398.5	1138.2	14.8	11.9
1986	r2799.7	2767.0	--	1.5	1535.2	1230.3	r15.3	17.4
1987	r2974.7	2933.6	--	0.8	1613.7	1319.1	r17.6	23.5
1988	3059.6	3022.6		0.9	1652.6	1369.1	15.4	21.6
*50a FACE YARNS**								
1984	1976.6	1954.5	--	0.7	934.3	1019.5	7.7	14.4
1985	2134.3	2112.2	--	1.3	1043.9	1067.0	10.2	11.9
1986	r2305.0	2277.9	--	1.5	1131.1	1145.3	r9.7	17.4
1987	r2464.9	2429.3	--	0.8	1188.4	1240.1	r12.1	23.5
1988	2535.5	2503.4	--	0.9	1225.6	1276.9	10.5	21.6
*50b BACKING**								
1984	310.5	303.9	--	--	227.8	76.1	6.6	--
1985	430.4	425.8	--	--	354.6	71.2	4.6	--
1986	r494.7	489.1	--	--	404.1	85.0	r5.6	--
1987	r509.8	504.3	--	--	425.3	79.0	r5.5	--
1988	524.1	519.2	--	--	427.0	92.2	4.9	--

FOOTNOTES FOR BOTH TABLE 8 & TABLE 9:

Most of the above data are taken from the Fiber Economic Bureau's publication ***Manufactured Fiber Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Apparel and Industrial & Other Consumer-Type Products tables, please see page 214.

TABLE 10:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
TOTAL INDUSTRIAL & OTHER CONSUMER								
1984	2505.3	2108.2	27.9	159.4	998.2	922.7	376.1	21.0
1985	2468.3	2080.2	30.6	161.9	968.6	919.1	375.0	13.1
1986	r2608.0	r2237.7	28.1	175.9	1107.0	926.7	r356.9	13.4
1987	r2810.3	r2418.5	22.0	166.6	r1185.2	r1044.7	r378.4	13.4
1988	2827.4	2489.4	21.0	160.0	1238.6	1069.8	326.3	11.7
65 TIRES*								
1984	368.5	364.8	14.0	--	350.8	--	3.7	--
1985	314.7	311.4	9.8	--	301.6	--	3.3	--
1986	300.1	297.6	9.0	--	288.6	--	2.5	--
1987	316.6	313.9	8.1	--	305.8	--	2.7	--
1988	312.1	309.9	5.9	--	304.0	--	2.2	--
66 HOSE*								
1984	33.0	30.1	8.0	--	19.5	2.6	2.9	--
1985	29.3	27.3	11.8	--	15.1	0.4	2.0	--
1986	r30.4	27.6	11.0	--	15.9	0.7	r2.8	--
1987	r30.2	27.5	9.4	--	17.2	0.9	r2.7	--
1988	33.5	31.3	8.4	--	17.7	5.2	2.2	--
67 BELTING*								
1984	60.1	50.7	3.0	--	31.4	16.3	9.4	--
1985	43.5	32.7	2.5	--	24.3	5.9	10.8	--
1986	41.7	31.1	3.1	--	23.3	4.7	10.6	--
1987	r46.7	37.0	2.5	--	26.6	7.9	r9.7	--
1988	49.4	41.6	1.6	--	24.3	15.7	7.8	--
61 MEDICAL, SURGICAL & SANITARY*								
1984	r401.5	r314.5	--	116.1	54.0	r144.4	87.0	--
1985	r383.6	r303.5	--	105.9	58.7	r138.9	80.1	--
1986	r464.4	r377.8	--	123.4	94.4	r160.0	r86.6	--
1987	r457.7	r369.1	--	75.5	102.4	r191.2	r88.6	--
1988	462.0	382.1	--	85.1	117.2	179.8	79.9	--
79b UNALLOCATED NONWOVENS*								
1984	r116.3	r116.3	--	3.0	--	r113.3	--	--
1985	r140.2	r140.2	--	12.9	--	r127.3	--	--
1986	r149.5	r149.5	--	14.9	--	r134.6	--	--
1987	r223.6	r223.6	--	50.5	--	r173.1	--	--
1988	257.9	257.9	--	46.7	--	211.2	--	--
79a FIBERFILL, STUFFING & FLOCK*								
1984	321.4	321.4	--	4.1	--	317.3	--	--
1985	354.9	354.9	--	6.5	--	348.4	--	--
1986	368.7	368.7	--	3.1	--	365.6	--	--
1987	403.8	403.8	--	0.4	--	403.4	--	--
1988	420.1	420.1	--	1.7	--	418.4	--	--
70 FELTS*								
1984	34.7	13.5	--	3.5	4.0	6.0	1.2	20.0
1985	23.7	10.6	--	2.0	3.9	4.7	1.0	12.1
1986	25.0	11.7	--	2.2	4.3	5.2	1.0	12.3
1987	20.4	7.1	--	3.2	3.9	8.1	1.0	12.3
1988	17.1	5.4	--	1.6	3.8	8.9	1.0	10.7
71 FILTRATION*								
1984	34.3	29.5	--	3.3	4.8	21.4	4.8	--
1985	37.4	32.8	--	3.2	5.2	24.4	4.6	--
1986	r38.4	32.7	--	4.6	4.1	24.0	r5.7	--
1987	r35.3	28.3	--	8.3	3.5	16.5	r7.0	--
1988	34.1	30.4	--	4.1	3.6	22.7	3.7	--

For all lettered and general footnotes to this table and the Apparel, Home Textiles and Floor Covering tables, please see page 214.

TABLE 10:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a] (CONTINUED)

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE	YARN	STAPLE		
*73 ROPE, CORDAGE, FISHLINE, ETC**								
1984	186.5	170.9	1.0	0.3	157.1	12.5	15.6	--
1985	184.3	168.9	0.6	0.4	157.3	10.6	15.4	--
1986	r189.8	175.1	0.4	1.7	155.7	17.3	r14.7	--
1987	r183.7	167.9	0.9	0.5	158.0	8.5	r15.8	--
1988	172.7	159.0	0.6	0.1	153.9	4.4	13.7	--
*72 SEWING THREAD**								
1984	123.6	72.2	c	5.2	51.1	15.9	51.4	--
1985	r127.3	r84.5	0.4	6.7	60.4	17.0	42.8	--
1986	r129.6	84.6	0.4	3.9	63.5	16.8	r45.0	--
1987	r146.1	r94.9	0.4	4.1	69.4	21.0	r51.2	--
1988	156.8	113.5	0.3	1.9	91.0	20.3	43.3	--
*76 PAPER & TAPE REINFORCING**								
1984	11.1	7.4	0.3	0.4	2.7	4.0	3.7	--
1985	6.8	3.9	1.8	0.4	1.7	--	2.9	--
1986	r5.5	3.4	0.9	0.1	2.4	c	r2.1	--
1987	r6.8	4.7	0.7	0.7	2.5	0.8	r2.1	--
1988	6.6	4.5	0.4	--	1.2	2.9	2.1	--
*69,77 ELECTRICAL & REINFORCED PLASTICS**								
1984	30.2	5.2	0.2	--	5.0	c	25.0	--
1985	31.3	6.3	0.1	--	6.2	--	25.0	--
1986	29.1	4.1	c	--	3.9	0.2	25.0	--
1987	30.4	5.4	c	0.4	4.2	0.8	25.0	--
1988	31.6	6.6	c	1.3	4.2	1.1	25.0	--
*75 COATED & PROTECTIVE FABRICS**								
1984	251.2	194.2	--	10.5	55.0	128.7	57.0	--
1985	193.0	135.6	--	10.2	43.9	81.5	57.4	--
1986	r197.2	136.2	--	11.6	47.0	77.6	r61.0	--
1987	r184.9	r119.5	--	3.8	57.2	r58.5	r65.4	--
1988	161.7	105.7	--	3.0	56.1	46.6	56.0	--
*63-64 TRANSPORATION FABRIC**								
1984	73.1	61.4	--	1.1	36.5	23.8	11.7	--
1985	85.4	74.2	--	0.8	53.9	19.5	11.2	--
1986	r83.7	72.4	--	1.0	50.5	20.9	r11.3	--
1987	r99.6	86.9	--	0.8	53.5	32.6	r12.7	--
1988	107.7	97.3	--	7.6	48.2	41.5	10.4	--
*56c NARROW FABRICS**								
1984	110.9	98.1	0.9	--	96.9	0.3	12.8	--
1985	105.5	93.0	--	--	93.0	c	12.5	--
1986	r122.8	105.3	--	--	105.3	--	r17.5	--
1987	r122.3	104.1	--	--	104.1	--	r18.2	--
1988	129.9	112.1	--	--	111.4	0.7	17.8	--
*74 BAGS & BAGGING**								
1984	46.6	41.3	--	--	40.5	0.8	5.3	--
1985	60.2	55.1	--	--	54.5	0.6	5.1	--
1986	r58.3	53.0	--	--	52.2	0.8	r5.3	--
1987	r63.0	57.6	--	0.3	54.8	2.5	r5.4	--
1988	62.5	58.3	0.1	0.1	57.6	0.5	4.2	--
*MISCELLANEOUS INDUSTRIAL & CONSUMER-TYPE PRODUCTS**								
1984	302.3	216.7	0.5	11.9	88.9	115.4	84.6	1.0
1985	347.2	245.3	3.6	12.9	88.9	139.9	100.9	1.0
1986	r373.8	306.9	3.3	9.4	195.9	98.3	r65.8	1.1
1987	r431.1	r359.1	--	18.1	r222.1	r118.9	r70.9	1.1
1988	402.8	344.8	3.7	6.8	244.4	89.9	57.0	1.0

Most of the above data are taken from the Fiber Economics Bureau's publication ***Manufactured Fiber Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

GENERAL NOTES FOR END USE TABLES
ON PAGES 207-213

Units are in million pounds.

- -- Little, or none, of the fiber is used.
- * When an asterisk appears, there is a footnote at the end of the table.
- a. This letter in the title of each table refers the reader to these notes.
- b. Manufactured fiber end use in these tables is divided between Artificial (Cellulosic), (rayon+acetate fibers) and Synthetic (Noncellulosic), (nylon, polyester, acrylic & olefin fiber). Yarn includes monofilaments and olefin "yarn" also includes film fiber and spunbonded polypropylene. Staple includes tow & fiberfill; see Item 79a, Fiberfill, Stuffing & Flock and its footnote on page 216. Certain waste quantities, which are tabulated with staple, are included; see text on page 203.

  The synthetic (noncellulosic) fibers included in this survey, for one or more years, are the acrylic, modacrylic, nylon, olefin (polyethylene & polypropylene), polyester fibers through 1988. 1987 & 1988 exclude vinyon fiber.
- c. Less than 50,000 pounds, i.e., nominal.
- d. The staple data are tabulated in the yarn column.
- e. The yarn data are tabulated in the staple column.
- r. This data shows a significant revision compared with the September 1988 ***Textile Organon*** data.

As described in the footnotes to Items 54a and 54b, apparel linings, pockets and such are tabulated in Items 54a and 54b and not with the applicable garments.

In the Apparel table, the sex and age classifications used are those of the U.S. Census Bureau. Thus **M** means Men's plus Boys' and **W** means all other persons, i.e., Women's, Misses', Juniors', Girls', Children's & Infants'.

NOTES FOR APPAREL ITEMS
PAGES 208-209

For all lettered and general footnotes to this table, see notes above.

40. SHEER HOSIERY:
Includes pantyhose, stockings, body stockings, leotards & tights, sheer knee-highs & anklets and support hose.

19,41. ANKLETS & SOCKS:
Include footsocks, anklets, half-hose, over-the-calf hosiery and nonsheer knee-highs for all ages and both sexes. Also includes infants' and children's waist-highs.

8,29. SWEATERS (MW):
Knitted sweater shirts, scarves, mufflers, gloves, mittens, caps, etc. Pullover, coat & cardigan types, full-fashioned and cut and sewn. Also note Item 57.

57. CRAFT & HANDWORK YARNS:
All yarns for handwork, i.e., knitting, embroidery, crocheting, needlepoint, macramé, crewel and yarn kits for all uses. Does not include sewing thread (Item 72). Olefin yarn for macramé is in Miscellaneous Industrial.

16-18. UNDERWEAR & NIGHTWEAR (M):
Undershirts, shorts & briefs, pajamas, nightshirts, sleepcoats, thermal underwear, etc.

35-39. UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS:
Underwear and nightwear component includes full and halfslips, panties, petticoats, pettipants, camisoles, vests, briefs and thermal underwear as well as nightgowns, pajamas, sleepcoats, peignoirs, robes, negligees and bedjackets. Also includes bodywear and all children's and infants' underwear & nightwear. **Excludes** the trim, elastic webbing, apparel lace, braid or narrow fabric used in these products.

The bras and foundations include corsets, girdles, combinations and one-piece garments, garter belts, hose supporters, two-way stretch and surgical & maternity foundation garments.

10,31. ROBES & LOUNGEWEAR (MW):
Men's & boys' beach & bathrobes, dressing gowns and smoking jackets, and women's beach & bathrobes and house-breakfast & brunch coats and dressing gowns.

54a. HIGH PILE FABRICS:
Include all applications. End uses such as coatings, collars, linings, backings and paint rollers are included. Napped or brushed fabrics such as fleeces, velvets or corduroys are excluded.

54b. FABRICS FOR LINING:
All manufactured fiber types except high pile fabrics (Item 54a), lining-type fabrics sold as retail piece goods and the lining components of shoes & slippers and luggage and handbags (Miscellaneous Other Consumer-Type). The apparel lining component of this series include main linings, interlinings, zip-in linings (except pile), pocketing and banding as well as the acetate and nylon tricot for laminating. Cotton drapery linings are not included here but are in Item 52. Also not included are interlinings of haircloth, urethane and non-woven fabrics.

43. APPAREL LACE:
Nets and veilings.

56a. NARROW FABRICS: ELASTIC AND NONELASTIC TYPES.
The "narrow woven goods" made by slicing broad woven fabrics are not included. **NARROW FABRIC** quantities for home textiles and industrial uses are shown in those sections.

RETAIL PIECE GOODS:
Are included in Topweight and Bottomweight Fabrics.

TOPWEIGHT FABRICS:
All shirts, blouses, lightweight dress and lightweight fashion fabrics. Fabrics generally weigh 5.0 ounces or less per square yard. Retail piece goods are included.

BOTTOMWEIGHT FABRICS:
Pants, jeans, sportswear, tailored clothing, coats and jackets, career apparel and heavier weight fashion fabrics. Fabrics generally weigh more than 5.0 ounces per square yard. Retail piece goods are included.

OTHER APPAREL:
Men's & women's work gloves and handkerchiefs. Manufactured fiber used for knitted accessories such as scarves, mufflers, gloves, mittens, caps, etc., is in Items 8 & 29.

NOTES FOR HOME TEXTILE ITEMS

PAGES 210-211

For all lettered and general footnotes to this table, see page 214.

HOME TEXTILES:

Data cover the use of each item not only in homes, but also in offices, hotels, institutions, etc. For certain transportation uses, note Items 50a, 63 & 64.

None of the quantities tabulated include any cotton stuffing or filling materials in items such as furniture, pillows, mattresses, comforters & quilts, sleeping bags, seat padding, etc. For the manufactured fibers, however, stuffing & fiberfill is tabulated in the Industrial section. Note text page 203 regarding the inclusion of certain manufactured fiber waste quantities here. Certain felt quantities are in Item 70.

45. **BEDSPREADS:**
Tailored & throw spreads, both tufted & woven, as well as the backing. **QUILTS:** Comforters and their outer shell, quilted pads are in Item 47.

46. **BLANKETS & BLANKETING:**
Woven, knit, needle-punched and flocked full-size and crib blankets and electric blanket shells, as well as the woven acetate or nylon filament yarn bindings thereof. Sizable quantities of rayon, acrylic, nylon & wool waste are included here.

47. **SHEETS:**
Pillowcases. **OTHER BEDDING:** Outside covers of quilted pads; mattress & mattress pads, civilian cots and sleeping bag shells. Mattress felts are in Item 70. The manufactured staple quantities here are mainly polyester for sheets and rayon & polyester for bed ticking. The manufactured filament is chiefly polyester for bed ticking.

48. **TOWELS & TOWELING:**
Woven hand, bath, dish towels, etc. Nonwoven towels, such as "Handi-wipes" and industrial wiping cloths, are in Item 61. The large cotton waste quantity used in these products is not included.

56b. **NARROW FABRICS:**
Only home textiles applications. See the Apparel and Industrial sections for Narrow Fabrics in those applications.

51. **CURTAINS & DRAPERY:**
Lace and other types (principally woven) i.e., cafe, tiered & cottage, ruffled, shortie drapes and tailored. Also includes the backing & headers of drapery fabrics. The cotton data include cotton drapery linings. Shower curtains are in Other Home Textiles.

52. **UPHOLSTERY:**
Furniture slipcovers and vinyl-coated cotton fabrics for upholstery. The olefin & saran webbing for outdoor furniture is included under Narrow Woven Industrial (Item 56c).

OTHER HOME TEXTILES:
Woven & lace napery, such as tablecloths & napkins, doilies, etc., as well as the cotton in window shades. For the manufactured fibers, it includes insect screening & netting. Wall covering fabric is in Miscellaneous Industrial.

NOTES FOR FLOOR COVERING ITEMS

PAGE 211

For all lettered and general footnotes to this table, see page 214.

50. **CARPETS & RUGS FACE FIBER (TOTAL):**
Sum of 50a & 50b.

50a. **FACE YARNS:**
Tufted, woven, knitted and needle-punched types. Tufted includes broadloom & roll goods,(including carpet tiles) transportation carpet, bath mats, scatter rugs, and "grass." Woven includes carpets such as Axminster, Velvet, Wilton, etc. Knit goods are mainly scatter rugs. Needle-punched are the indoor outdoor carpets. Item 50a does not include braided, hooked or woven twisted paper carpets.

50b. **CARPET BACKING FIBERS:**
The Artificial (Cellulosic) Yarn is industrial rayon used for woven carpet chain warps. The Other Yarn is olefin (monofil+ film fiber+spunbonded) and small quantities of nylon & polyester filament yarn. The Other Staple is olefin only. The substantial quantities of jute used as woven primary & secondary carpet backing, as well as the jute yarn used in the warp of woven carpets, are not tabulated in Item 50b. Nor does it include the quantities of wool, hair and jute used in carpet and rug pads and cushions.

NOTES FOR INDUSTRIAL & OTHER CONSUMER -TYPE ITEMS

PAGES 212-213

For all lettered and general footnotes to this table, see page 214.

56c. **NARROW FABRICS:**
Woven labels, industrial webbing, shoelaces, tapes (venetian blinds & industrial), transportation seat belts, auto windlace, channeling & trim, outdoor furniture webs and zipper tapes. These figures exclude transmission & conveyor belting (in Item 67); friction tape and the braided narrow fabric used in electrical applications (in Item 69); and gummed cotton tape (in Item 76).

61. **MEDICAL, SURGICAL & SANITARY:**
Bandages, gauzes, adhesive tapes & plasters, sanitary napkins & tampons, cotton diapers, rayon disposable diapers, surgical gowns and packs. Medical sutures are tabulated in Item 72. Surgical hosiery is in Items 19 & 40. Not included here is cotton waste & linters nor any nontextiles used for filling materials.

63 & 64. **TRANSPORTATION FABRIC:**
Auto seat upholstery & slipcovers, sidewall, headlining and sheeting. The cotton quantities include the knit and woven fabric used as the backing for vinyl sheeting. The item includes convertible auto tops & replacements thereof, as well as upholstery used in other kinds of transportation, such as airplanes, railroad & subway cars, buses, etc. it does not include seat padding, transportation rugs (in Item 50), window channeling (in Item 56c), flocking, tassels, trim, etc. The manufactured fiber used for substrates for automotive fabric is included in Item 75.

Notes for Industrial & Other Consumer-Type Items (Continued)

65. **TIRES:**
All types, i.e., automobile, truck, tractor, off-road, bicycle, etc. The data include tire cord & tire cord fabric, chafer and other tire components, i.e., flippers, liners, bead wrap & breaker strips.

The data include imports of tire yarn, cord & fabric and also cover any quantities subsequently exported in cord or fabric form.

The consumption of steel tire cord for the years 1984-1988 inclusive is estimated as follows: 300.5, 317.6, 327.0, 349.0 & 393.0. However, these quantities are **not included** in Item 65.

66. **HOSE:**
Includes wrapped, knitted, braided and woven products. Does not include braided vacuum cleaner hose.

67. **BELTING:**
Includes flat conveyor & transmission belts (both rubber and nonrubber, and mechanical rubber goods).

69 & 77. **ELECTRICAL APPLICATIONS & REINFORCED PLASTICS:**
The cotton quantities are estimated.

Electrical Applications: Electric wire insulation & covering of all kinds plus friction tape and cable wrap, stuffing & identification. The total fiber consumed does not reflect the increased use of plastic and other nonfibrous coatings, of course.

Reinforced Plastics: High- and low-pressure laminates used in the manufacture of construction materials (corrugated & flat sheet, plumbing accessories, etc.), process equipment (tanks & containers, pipes, ducts, etc.), transportation uses (aircraft, autos, trucks, etc.) and marine, missiles, molded electrical parts, housing, seating, trays, etc. Flexible laminates of cotton are tabulated by end use, e.g., vinyl-supported upholstery fabric in Item 63, etc.

70. **FELTS:**
Wet & dry papermakers' felts, mattress felts and cushioning & wicking felts. Apparel felts (e.g., for shirts) are classified by apparel products. Patio and similar "felts" are in Item 50a. Laundry press pads and flatwork ironer pads are in Miscellaneous Industrial. The wool quantity includes some felts used in filtration (recorded here and not in Item 71), but excludes the substantial amounts used in pressed felts.

The consumption of cotton linters for the years 1984-1988 inclusive is estimated as follows: 102.3, 138.7, 131.7, 106.5 & 137.2. However, these quantities are **not included** in item 70.

71. **FILTRATION:**
Woven and nonwoven filters for wet & dry filtration, including tea bags. The small wool quantity used in the copper refining industry is included in Item 70.

The fiber used in cigarette filtration is **not included** in this end use or in the Industrial Uses totals.

72. **SEWING THREAD:**
Home sewing and industrial & weight goods, as well as medical sutures.

73. **ROPE** (Braided & twisted), **CORDAGE** (under 3/16"), **FISHLINE, ETC:**
Includes hawsers, baler or harvest twine, clothesline, tying twine, etc., as well as fishnets, seines & netting twine.

74. **BAGS & BAGGING:**
Manufactured Other Yarn is nylon mailbags plus olefin leno mesh & close-woven bags, including sandbags; also includes olefin bagging for wool bales. Carpet backing bale wrap is in Other Industrial.

75. **COATED & PROTECTIVE FABRICS:**
For the manufactured fibers, tents & tarpaulins, as well as the substrates for vinyl, rubber or urethane coating, lamination or impregnation. Examples of specific end uses covered include parachutes, deceleration chutes & tow targets, awnings, beach, garden & tractor umbrellas, inflatable dunnage & cushions, air-supported structures & automotive air-spring diaphragms and boat & pool covers.

The cotton quantities include awnings, boat covers, tarpaulins and tents. **Not included** here are the cotton quanities used for vinyl substrates; such quantities are tabulated with their appropriate end use, i.e., transportation upholstery (Items 63 & 64), upholstery (Item 52), etc. Manufactured fiber surfaces for recreational fields are not included in this survey.

76. **PAPER & TAPE REINFORCING:**
Gummed and pressure-sensitive tape, as well as nonwoven bonded structures for paper, tape and ribbon reinforcing.

79a. **FIBERFILL, STUFFING & FLOCK:**
All applications (apparel, home textiles & industrial). Both graded fiber and waste are included. The consumption of polyester staple & tow in fiberfill for the years 1984-1988 inclusive was: 277.7, 282.5, 294.9, 348.6 & 357.2. For the same years, use of polyester waste for stuffing and filling materials was: 24.8, 50.9, 60.3, 45.3 & 50.1.

79b. **UNALLOCATED NONWOVENS:**
All nonwoven quantities remaining after the identifiable nonwoven end uses, such as medical, surgical & sanitary, filtration, coated & protective fabrics, and paper & tape reinforcing, have been calculated.

MISCELLANEOUS INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS:
The cotton for abrasives, book binding, luggage & handbags, shoes & slippers, tobacco cloth, woven wiping cloths and wall-covering fabrics. For rayon, it includes asbestos carrier fiber, laundry supplies and mop yarns. For olefin yarn, it includes agricultural cloth, bale wrap, cable binding, civil engineering fabrics and macramé and other craft yarns.

The consumption of cotton linters for the years 1984-1988 inclusive is estimated as follows: 18.5, 25.1, 23.8, 19.2 & 24.8. However, these quantities are **not included** in Miscellaneous Industrial & Other Consumer Type Products.

TABLE 11:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1989	1988
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	6	1	4	0	139						150	
BRAZIL	53	110	55	0	54	76	22						370	
CANADA	745	619	686	613	656	532	399						4250	
CHILE	44	22	22	22	22	44	48						224	
GERMANY, FED. REP. OF	784	515	697	452	436	362	521						3767	
IRELAND	37	0	36	138	34	36	107						388	
JAPAN	55	121	122	185	110	206	57						856	
KOREA, REP. OF	66	22	0	56	0	22	11						177	
MEXICO	156	99	171	45	153	144	213						981	
NETHERLANDS	61	239	261	173	204	380	262						1580	
UNITED KINGDOM	75	68	113	135	75	66	84						616	
ALL OTHER COUNTRIES [a]	40	24	30	8	168	62	363						695	
TOTAL ARTIFICIAL YARN	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**	**2226**						**14054**	**9289**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	323	422	377	226	381	430	394						2553	
CANADA	4757	1990	4093	3462	3409	2370	1638						21719	
CHINA, PRC	104	0	369	0	752	0	110						1335	
GERMANY, DEM. REP.	0	0	95	43	82	80	44						344	
GERMANY, FED. REP. OF	68	67	95	116	124	142	208						820	
JAPAN	150	521	422	263	107	60	84						1607	
SWITZERLAND	9	25	41	37	65	40	286						503	
TAIWAN	28	0	28	88	320	0	264						728	
UNITED KINGDOM	265	225	1	47	69	42	67						716	
ALL OTHER COUNTRIES [b]	273	241	123	138	111	255	42						1183	
TOTAL ARTIFICIAL STAPLE+TOW	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**	**3137**						**35108**	**9055**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	30	46	0	11	38	1479						1604	
BELGIUM	0	56	115	171	343	236	568						1489	
BRAZIL	106	53	170	30	140	201	57						767	
CANADA	3437	2926	2969	2399	3327	3304	2445						20807	
COSTA RICA	252	487	591	433	415	517	537						3232	
ECUADOR	91	26	144	0	58	23	71						413	
FRANCE	1180	1151	1079	1159	1159	1085	972						7785	
GERMANY, FED. REP. OF	2231	2204	2641	2514	2357	3691	2202						17840	
ISRAEL	299	217	172	149	285	244	117						1483	
ITALY	924	323	873	859	1031	132	489						4631	
JAPAN	469	610	568	609	548	502	845						4151	
KOREA, REP. OF	10	49	7	81	98	42	89						376	
MEXICO	1447	2222	2385	1857	2527	2911	2490						15839	
NETHERLANDS	68	193	267	338	69	63	398						1396	
SINGAPORE	0	25	0	33	0	33	16						107	
TAIWAN	50	175	650	1296	2844	3217	3133						11365	
THAILAND	65	64	69	67	63	171	124						623	
UNITED KINGDOM	1482	1357	1409	1649	1790	1506	1635						10828	
ALL OTHER COUNTRIES [c]	36	175	221	260	67	330	189						1278	
TOTAL SYNTHETIC YARN	**12147**	**12353**	**14376**	**13904**	**17132**	**18246**	**17856**						**106014**	**57736**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	3	9	13	1	0	79						105	
AUSTRALIA	31	160	1	82	16	43	149						482	
BELGIUM	47	99	60	56	67	7	7						343	
CANADA	1413	737	1481	1489	1292	874	622						7908	
FRANCE	230	304	253	405	388	336	136						2052	
GERMANY, FED. REP. OF	1985	1758	1318	1293	1491	1790	1084						10709	
INDIA	0	0	3772	3400	709	49	1772						9702	
IRELAND	280	480	305	348	0	36	0						1449	
ITALY	482	394	206	46	61	34	70						1293	
JAPAN	1773	1757	2303	2770	2429	1826	1929						14787	
KOREA, REP. OF	2297	3387	3933	4165	5687	4876	4806						29151	
MEXICO	1049	372	420	1016	783	462	579						4681	
NETHERLANDS	31	103	99	81	56	105	21						496	
SPAIN	8	0	178	39	65	128	0						418	
SWITZERLAND	146	165	134	166	125	42	242						1020	
TAIWAN	262	235	215	808	917	2057	2093						6587	
TURKEY	18	0	0	0	111	37	90						256	
UNITED KINGDOM	2318	2304	1643	2107	2671	1229	1645						13917	
ALL OTHER COUNTRIES [d]	2	53	45	56	29	28	0						213	
TOTAL SYNTHETIC STAPLE+TOW	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**	**15324**						**105569**	**112295**

a. Belgium 334, Italy 83, Taiwan 67, China, PRC 51, France 43, Greece 41, Norway 32, Singapore 23, Egypt 21.
b. Australia 217, Poland 189, Korea, Rep. of 171, Romania 135, France 115, Sweden 76, Belgium 73, Italy 69, Finland 57, Spain 47, India 18, Thailand 11, Mexico 1.
c. Portugal 304, Egypt 258, Ireland 132, Turkey 129, Austria 102, Peru 76, Australia 49, Switzerland 57, Spain 34, El Salvador 35, Morocco 26, Hong Kong 24, Honduras 20, Sweden 12, Colombia 9, Denmark 9, Greece 2.
d. Israel 142, Germany, Dem. Rep. 42, Brazil 24, Hong Kong 3, China, PRC 2.

Effective January 1, 1989 the U.S. Manufactured Imports for Consumption by Country of Origin are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

Selected U.S. Manufactured Imports for Consumption by Country of Origin for 1988 are published in the ***Textile Organon***, February 1989 issue, page 31.

TABLE 12:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	114	266	408	205	111	192	176						1472	
TEXTURED	180	1	0	24	0	27	497						729	
OTHER	1726	1532	1671	1449	1732	1673	1402						11185	
MONOFILAMENTS & STRIPS	96	40	120	150	73	38	151						668	
SUBTOTAL ABOVE	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**	**2226**						**14054**	**9289**
STAPLE	5924	3481	5624	4403	5312	3419	3113						31276	
TOW	47	0	0	7	103	0	24						181	
TOPS	6	10	20	10	5	0	0						51	
SUBTOTAL ABOVE	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**	**3137**						**31508**	**3055**
WASTE	**18**	**122**	**47**	**213**	**0**	**0**	**0**						**400**	**5**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1037	1093	1506	1578	1829	1964	1480						10487	
TEXTURED														
UP TO 450 DENIER	385	217	359	285	319	315	333						2213	
OVER 450 DENIER	1311	1054	1428	1294	1241	654	943						7925	
OTHER	3820	3306	3786	3845	4296	5210	4007						28270	
MONOFILAMENTS & STRIPS	72	159	58	113	143	116	120						781	
SUBTOTAL ABOVE	**6625**	**5829**	**7137**	**7115**	**7828**	**8259**	**6883**						**49676**	**22362**
POLYESTER														
HIGH TENACITY	957	880	909	488	797	703	361						5095	
TEXTURED	883	1673	1738	1766	1775	2385	1747						11967	
POY	0	40	642	1088	2744	3214	3170						10898	
OTHER	1152	1481	1719	1740	1324	1567	1551						10534	
MONOFILAMENTS & STRIPS	65	80	34	55	24	70	73						401	
SUBTOTAL ABOVE	**3057**	**4154**	**5042**	**5137**	**6664**	**7939**	**6902**						**38895**	**20984**
OTHER SYNTHETIC FILAMENT														
TEXTURED	2057	1685	1550	1054	2074	1555	1199						11174	
OTHER	261	386	339	274	171	136	1049						2616	
MONOFILAMENTS & STRIPS	147	299	308	324	395	357	1823						3653	
SUBTOTAL ABOVE	**2465**	**2370**	**2197**	**1652**	**2640**	**2048**	**4071**						**17443**	**24390**
STAPLE														
NYLON	1726	1896	1845	1592	1422	1273	1445						11199	
POLYESTER	5584	5594	10047	10627	10327	8674	9941						60794	
ACRYLIC	1934	1028	1576	1518	1206	1511	1335						10108	
POLYPROPYLENE	44	55	197	351	93	220	298						1258	
OTHER	172	1040	651	740	167	165	259						3194	
TOW														
NYLON	237	433	257	504	341	315	225						2312	
POLYESTER	47	78	131	49	140	114	31						590	
ACRYLIC	2023	1709	1127	2522	2868	1462	1574						13285	
OTHER	117	120	146	0	0	14	0						397	
TOPS	488	358	398	437	334	201	216						2432	
SUBTOTAL ABOVE	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**	**15324**						**105569**	**112295**
WASTE														
NYLON	1971	1804	1754	2087	1949	2027	1769						13361	
POLYESTER	999	340	730	1029	846	973	1475						6392	
OTHER	396	725	477	486	547	389	326						3346	
TOTAL MANUFACTURED FIBERS ABOVE	**35996**	**32985**	**41602**	**42307**	**44708**	**40933**	**42113**						**280644**	**223626**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	229	84	46	26	74	73	105						637	
SPUN YARN	492	396	370	287	418	406	466						2835	
SPUN YARNS														
SYNTHETIC	517	686	517	258	677	1019	937						4611	
ARTIFICIAL	0	0	0	0	0	0	0						0	
PUT UP FOR RETAIL SALE	71	50	27	37	74	39	128						426	
GRAND TOTAL ABOVE	**37305**	**34201**	**42562**	**42915**	**45951**	**42470**	**43749**						**289153**	**266640**

SOURCE: U.S. Census Bureau Report IM145X

Effective January 1,1989 the U.S. Imports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon*** April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Imports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 32.

TABLE 13:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	9	13	45	26	30	16	74						213	
TEXTURED	463	-7	29	1	29	28	1009						1576	
OTHER	694	63	18	60	21	15	51						922	
MONOFILAMENTS & STRIPS	90	0	7	93	5	9	21						225	
SUBTOTAL ABOVE	1256	33	99	180	85	68	1155						2936	6930
STAPLE	2827	1786	1325	920	1659	1786	2084						12387	
TOPS	94	0	8	129	53	48	7						339	
SUBTOTAL ABOVE	2921	1786	1333	1049	1712	1834	2091						12726	13888
WASTE	1303	559	1587	1116	1635	1108	1021						8329	1415
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	9331	9410	7884	16614	6326	6999	11613						68177	
TEXTURED														
UP TO 450 DENIER	522	586	719	666	819	1271	488						5071	
OVER 450 DENIER	4706	5051	5459	4430	4096	3626	3176						30544	
OTHER	2038	2103	2133	2188	2571	2003	1669						14705	
MONOFILAMENTS & STRIPS	239	258	187	131	204	303	282						1604	
SUBTOTAL ABOVE	16836	17408	16382	24029	14016	14202	17228						120101	94577
POLYESTER														
HIGH TENACITY	3031	3122	2773	3282	4214	4080	3334						23836	
TEXTURED	3651	3677	2385	2939	3208	3577	1341						20778	
POY	939	1250	2204	1446	629	528	2782						9778	
OTHER	1007	584	829	983	777	1186	933						6299	
MONOFILAMENTS & STRIPS	208	213	203	132	302	332	275						1665	
SUBTOTAL ABOVE	8836	8846	8394	8782	9130	9703	8665						62356	48856
OTHER SYNTHETIC FILAMENT														
TEXTURED	1033	457	872	903	992	634	980						5871	
OTHER	1342	1471	1735	1730	1559	1332	1724						10893	
MONOFILAMENTS & STRIPS	486	421	771	1317	927	987	687						5596	
SUBTOTAL ABOVE	2861	2349	3378	3950	3478	2953	3391						22360	26537
STAPLE														
NYLON	2605	3265	3262	2629	3280	3985	2532						21558	
POLYESTER	14048	10762	12940	12923	10675	7497	8203						77048	
ACRYLIC	5326	5674	6643	6896	6342	9369	8569						46819	
POLYPROPYLENE	1336	1569	1129	2264	2714	2477	1995						13484	
OTHER	836	2036	1489	2562	1734	1757	2004						12418	
TOW														
NYLON	31	50	50	108	141	86	56						522	
POLYESTER	37	564	472	634	7	621	541						2876	
ACRYLIC	1037	1761	2185	3302	1467	829	1070						11651	
OTHER	161	16	34	503	9	7	77						807	
TOPS	847	964	1224	2191	3092	1230	1557						11105	
SUBTOTAL ABOVE	24264	26661	29428	34012	29461	27858	26604						198288	231839
WASTE														
NYLON	2127	2118	2159	2883	2102	2007	1852						15248	
POLYESTER	4369	3980	3189	5535	3685	2726	3631						27115	
OTHER	5113	6957	8080	6731	7071	5876	8304						48132	
TOTAL MANUFACTURED FIBERS ABOVE	69886	70757	74029	88267	72375	68335	73942						517591	496153
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	13	51	43	74	9	93	41						324	
SPUN YARN	0	0	0	0	0	0	0						0	
SPUN YARNS														
SYNTHETIC	732	959	1152	1172	1844	1089	856						7804	
ARTIFICIAL	0	0	0	0	0	0	0						0	
PUT UP FOR RETAIL SALE	606	740	923	580	532	435	536						4352	
GRAND TOTAL ABOVE	71237	72507	76147	90093	74860	69952	75375						530171	

SOURCE: U.S. Census Bureau Report EM522

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U.S. Monthly Exports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 33.

TABLE 14:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1989	1988
MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]														
ARTIFICIAL (CELLULOSIC)														
YARN	17.3	17.1	18.4	21.5	18.3	18.4	18.9	17.8					147.7	143.0
RAYON STAPLE	34.5	32.1	36.5	31.4	34.8	30.9	24.8	29.4					254.4	280.3
TOTAL ARTIFICIAL (CELLULOSIC)	51.8	49.2	54.9	52.9	53.1	49.3	43.7	47.2					402.1	423.3
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5	32.6	32.3	28.9	32.7	29.0	29.1					246.4	251.0
- CARPET	74.9	77.2	82.0	77.5	86.1	78.5	73.4	89.9					639.5	642.9
- TEXTILE [f]	33.9	33.2	35.0	34.6	33.8	34.2	31.8	32.3					268.8	251.1
POLYESTER - INDUSTRIAL[d]	28.6	29.7	30.9	32.2	30.4	32.8	30.7	31.9					247.2	237.8
- TEXTILE[f]	73.2	71.2	74.4	78.2	77.0	66.1	73.5	54.9					568.5	551.2
OLEFIN[e]	105.3	104.3	103.6	104.1	112.3	105.5	97.6	109.9					842.6	798.0
TOTAL YARN	347.2	346.1	358.5	358.9	368.5	349.8	336.0	348.0					2813.0	2732.0
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.8	76.4	81.3	78.3	74.9	90.8					651.2	637.1
ACRYLIC+MODACRYLIC	41.7	46.2	48.6	49.2	51.7	44.0	41.1	47.6					370.1	390.4
POLYESTER	205.8	192.1	212.4	214.3	208.1	193.9	182.0	198.3					1606.9	1575.6
OLEFIN	31.1	31.6	32.0	31.4	32.3	33.5	27.8	33.9					253.6	241.8
TOTAL STAPLE	360.9	348.3	381.8	371.3	373.4	349.7	325.8	370.6					2881.8	2844.9
TOTAL SYNTHETIC (NONCELLULOSIC)	708.1	694.4	740.3	730.2	741.9	699.5	661.8	718.6					5694.8	5576.9
TOTAL MANUFACTURED FIBER	759.9	743.6	795.2	783.1	795.0	748.8	705.5	765.8					6096.9	6000.2
MANUFACTURED FIBER END-OF-MONTH STOCK														
ARTIFICIAL (CELLULOSIC)														
YARN	11.7	10.9	11.3	10.4	9.7	8.9	11.0	10.7					10.7	11.6
RAYON STAPLE	13.0	13.2	11.7	12.5	13.4	15.8	16.8	16.3					16.3	13.7
TOTAL ARTIFICIAL (CELLULOSIC)	24.7	24.1	23.0	22.9	23.1	24.7	27.8	27.0					27.0	25.3
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.8	22.4	22.9	24.2	24.5	26.7	27.3					27.3	30.5
- CARPET	63.5	63.2	62.8	68.7	64.0	66.8	73.6	59.3					59.3	61.9
- TEXTILE[f]	47.1	48.3	46.4	47.0	47.4	49.2	52.7	54.1					54.1	55.2
POLYESTER - INDUSTRIAL[d]	35.0	31.4	30.6	31.6	30.9	31.9	33.9	32.3					32.3	32.4
- TEXTILE[f]	73.5	76.9	81.8	85.1	85.0	89.1	99.7	115.7					115.7	94.4
OLEFIN[e]	53.1	53.8	58.0	57.8	58.5	60.7	61.1	60.6					60.6	53.7
TOTAL YARN	296.6	298.4	302.0	313.1	310.0	322.2	347.7	349.3					349.3	328.1
STAPLE+TOW+FIBERFILL														
NYLON	51.8	52.9	51.0	57.5	57.5	57.0	59.1	46.9					46.9	60.6
ACRYLIC+MODACRYLIC	70.5	68.3	69.0	67.3	65.2	69.7	71.7	69.3					69.3	67.3
POLYESTER	163.5	163.8	158.5	164.4	176.2	191.0	226.5	233.6					233.6	194.9
OLEFIN	31.0	31.3	32.8	34.3	35.2	33.3	34.2	34.1					34.1	38.4
TOTAL STAPLE	316.8	316.3	311.3	323.5	334.1	351.0	391.5	383.9					383.9	361.2
TOTAL SYNTHETIC (NONCELLULOSIC)	613.4	614.7	613.3	636.6	644.1	673.2	739.2	733.2					733.2	689.3
TOTAL MANUFACTURED FIBER	638.1	638.8	636.3	659.5	667.2	697.9	767.0	760.2					760.2	714.6
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	12.1	12.8	14.1	11.5	11.5	11.8							73.8	75.0
CARPET CLASS WOOL	0.8	1.4	1.5	1.6	1.6	1.4							8.3	8.4
TOTAL RAW WOOL	12.9	14.2	15.6	13.1	13.1	13.2							82.1	83.4
RAW COTTON	289.5	301.0	339.2	305.7	359.7	348.8	269.3						2213.2	2055.1

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.